Sara Rojas

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CAREER PROFILE

Ph.D. candidate in Computer Vision at KAUST, under the supervision of Professor Bernard Ghanem. Experience in neural rendering, 3D reconstruction, 3D-based recognition tasks, and diffusion models. Skilled at structuring all stages of research projects, from ideation and experimentation to writing with a proven track record of publications in top-tier conferences. Successful in performing in intense environments and cross-culture collaborations.

EDUCATION

2020 - 2025	Ph.D.	Electrical and Computer Engineering — KAUST	(GPA: 4.0/4.0)
2017 - 2018	M.Sc.	Biomedical Engineering — Universidad de los Andes	(GPA: 4.6/5.0)
2013 - 2016	B.E.	Electronics Engineering — Universidad de los Andes	(GPA: 4.1/5.0)

WORK EXPERIENCE

Research Intern — Naver Labs Europe (France) Sep 2024 - Mar 2025
Working on 3D clothed human reconstruction based on multi-view images and MAST3R model. Supervised by Gregory Rogez (Principal Research Scientist). Paper under submission.

Research Intern — Adobe Inc. (USA) May 2023 - Sep 2023
Worked on 3D Scene Editing task using diffusion models (ControlNet) and NeRF representations. Supervised by Kalyan Sunkavalli (Principal Research Scientist). Paper published at ECCV.

Research Intern — KAUST (Saudi Arabia) Jul 2019 - Dec 2019
Worked on adversarial attacks for point clouds. Supervised by Professor Bernard Ghanem at the Image and Video Understanding Lab. Paper published at ECCV.

Research Intern — University of Southern California (USA) Jun 2018 – Aug 2018
Researched biomedical image segmentation for human organ vulnerability with the U.S. Army Research Lab. Authored a technical review. Supervised by Autumn Kulaga at the Institute for Creative Technologies.

Teaching Assistant — Universidad de los Andes (Colombia) Jul 2017 – Jun 2019
Created lab content, guided projects, and assessed students in courses including Electrical Engineering, Circuit Fundamentals, IT in Organizations, and Ironman Technology.

SELECTED PUBLICATIONS

Sara Rojas, Matthieu Armando, Bernard Ghanem, Philippe Weinzaepfel, Vincent Leroy, and Gregory Rogez (2025). "HAMSt3R: Human Aware Multi-view Stereo 3D Reconstruction". In: ***Under submission***.

Jinjie Mai, Wenxuan Zhu, **Sara Rojas**, Jesus Zarzar, Abdullah Hamdi, Guocheng Qian, Bing Li, Silvio Giancola, and Bernard Ghanem (2024). "TrackNeRF: Bundle Adjusting NeRF from Sparse and Noisy Views via Feature Tracks". In: ***ECCV***.

Sara Rojas, Julien Philip, Kai Zhang, Sai Bi, Fujun Luan, Bernard Ghanem, and Kalyan Sunkavalli (2024). "DATENeRF: Depth-Aware Text-based Editing of NeRFs". In: ***ECCV***.

Sara Rojas, Jesus Zarzar, Juan C. Perez, Artsiom Sanakoyeu, Ali Thabet, Albert Pumarola, and Bernard Ghanem (2023). "Re-ReND: Real-time Rendering of NeRFs across Devices". In: ***ICCV***.

Jesus Zarzar*, **Sara Rojas***, Silvio Giancola, and Bernard Ghanem (2022). "SegNeRF: 3D Part Segmentation with Neural Radiance Fields". In: *ArXiv:2211.11215*.

Abdullah Hamdi, **Sara Rojas**, Ali Thabet, and Bernard Ghanem (2020). "AdvPC: Transferable Adversarial Perturbations on 3d Point Clouds". In: ***ECCV***.

SKILLS AND INTERESTS

Software Skills: Python, Tensorflow, PyTorch, MATLAB, and GLSL
Languages: English (Professional Working Proficiency), Spanish (Native)
Interests: Wall and rock climbing, reading non-fiction books, gyming and travelling.